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APPLICATION NO.	FILING	DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO
10/065,807	11/21/	/2002	Shigefumi Odaohhara	JP920010333U	7978
25299	7590	11/04/2004		EXAMINER	
IBM CORP	ORATION		LUK, LAWRENCE W		
PO BOX 12 DEPT 9CCA	195 A, BLDG 002		ART UNIT	PAPER NUMBER	
RESEARCH TRIANGLE PARK, NC 27709				2838	
				DATE MAILED: 11/04/200	4

Please find below and/or attached an Office communication concerning this application or proceeding.

		Application No.	Applicant(s)			
Office Action Summary		10/065,807	ODAOHHARA, SHIGEFUMI			
		Examiner	Art Unit			
		Lawrence W Luk	2838			
Period fo	The MAILING DATE of this communication a	ppears on the cover sheet with the c				
A SH THE I - Exter after - If the - If NO - Failu Any I	ORTENED STATUTORY PERIOD FOR REP MAILING DATE OF THIS COMMUNICATION nsions of time may be available under the provisions of 37 CFR SIX (6) MONTHS from the mailing date of this communication. period for reply specified above is less than thirty (30) days, a report of period for reply is specified above, the maximum statutory period for reply within the set or extended period for reply will, by state reply received by the Office later than three months after the mailed patent term adjustment. See 37 CFR 1.704(b).	1. 1.136(a). In no event, however, may a reply be timely within the statutory minimum of thirty (30) dayed will apply and will expire SIX (6) MONTHS from ute, cause the application to become ABANDONE	nely filed s will be considered timely. the mailing date of this communication. D (35 U.S.C. § 133).			
Status						
2a) <u></u>	Responsive to communication(s) filed on 10 August 2004. This action is FINAL . 2b) This action is non-final. Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.					
Dispositi	on of Claims					
5)□ 6)⊠ 7)□	Claim(s) 1-4,16-18 and 22-26 is/are pending in the application. 4a) Of the above claim(s) is/are withdrawn from consideration. Claim(s) is/are allowed. Claim(s) 1-4,16-18 and 22-26 is/are rejected. Claim(s) is/are objected to. Claim(s) are subject to restriction and/or election requirement.					
Applicati	on Papers					
10)	The specification is objected to by the Examination The drawing(s) filed on is/are: a) and a complex and	ccepted or b) objected to by the face drawing(s) be held in abeyance. See ection is required if the drawing(s) is object.	e 37 CFR 1.85(a). jected to. See 37 CFR 1.121(d).			
Priority u	ınder 35 U.S.C. § 119					
a)l	Acknowledgment is made of a claim for foreign All b) Some * c) None of: 1. Certified copies of the priority docume 2. Certified copies of the priority docume 3. Copies of the certified copies of the priority docume application from the International Bure see the attached detailed Office action for a list	nts have been received. nts have been received in Applicati iority documents have been receive au (PCT Rule 17.2(a)).	on No ed in this National Stage			
Attachmen	• •	_ 0				
2) Notice 3) Information	te of References Cited (PTO-892) te of Draftsperson's Patent Drawing Review (PTO-948) mation Disclosure Statement(s) (PTO-1449 or PTO/SB/0 or No(s)/Mail Date	4) Interview Summary Paper No(s)/Mail Da 5) Notice of Informal P 6) Other:				

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DETAILED ACTION

Claim Rejections - 35 USC § 103

- 1. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 2. Claims 1-4, 16-18 and 22-26 are rejected under 35 U.S.C. 103(a) as being unpatentable over Szepesi (5,672,952) in combination with Aker et al. (6,803,746).

As to claim 1, Szepesi disclose in figure 3A, apparatus comprising: a body which consumes power; a battery (unit 14) which supplies power to the body through a power line by discharging after being charged; a high-capacitor capacitor connected to the power line in parallel with the battery (unit 14); a switch (unit 10) for disconnecting or connecting the high-capacity capacitor from or to the power line by a circuit; and a controller (unit 23) for controlling operations of the switch (unit 10), except for a high-capacitor capacitor.

Aker et al. disclose in figure 10, column 4, lines 8-13, a high-capacitor capacitor connected to the power line in parallel with the battery.

It would have been obvious to person having ordinary skill in the art at the time of the invention was made to modify the device of Szepesi to include a high-capacitor capacitor connected to the power line as taught by Aker et al. for control the charge flowing through the power switch.

As to claim 2, Szepesi in view of Aker et al. are applied aupra, and Szepesi further disclose in column 2, line 48 to column 3, line 5, the controller (unit 23) controls operations of the switch (unit 10) to disconnect the high-capacity capacitor by a circuit when the battery (unit 14) is disconnected from the body.

As to claim 3, Szepesi in view of Aker et al. are applied aupra, and Szepesi further disclose in column 2, line 48 to column 3, line 5, the controller (unit 23) controls operations of the switch (unit 10) to disconnect the high-capacity capacitor by a circuit when the body is powered off and/or the body is kept in a small-power-consumption mode.

As to claims 4 and 26, Szepesi in view of Aker et al. are applied aupra, and Szepesi further disclose in figure 3A, column 3, lines 6-11, wherein the high capacity capacitor and the switch are integrated so that they can be set to the body.

As to claim 16, Szepesi in view of Aker et al. are applied aupra, and Szepesi further disclose in column 9, lines 50-61, an electrical apparatus comprising; a cell for supplying power though a predetermined power line; and a high-capacity capacitor connected to the power line in parallel with the cell (unit 14) under a predetermined condition.

As to claim 17, Szepesi in view of Aker et al. are applied aupra, and Szepesi further disclose in figure 3A, a switch (unit 10) for disconnecting or connecting the high-capacity capacitor from or to the power line by a circuit; and a CPU (unit 23) for controlling operations of the switch (unit 10).

As to claim 18, Szepesi in view of Aker et al. are applied aupra, and Szepesi further disclose in figure 3A, column 5, lines 10-25, the CPU detects a state in which the cell is not connected to the electrical apparatus or a state in which it is unnecessary to supply a peak power to the electrical apparatus when the cell is set to the electrical apparatus and controls operations of the switch based on a detected state.

As to claim 22, Szepesi in view of Aker et al. are applied aupra, and Szepesi further disclose in figure 3A, column 5, lines 10-25, an electrical apparatus comprising: a cell for supplying power through a predetermined power line; a high capacity capacitor connected to the power line in parallel with the cell under a predetermined condition; a switch for disconnecting of connecting the high-capacity capacitor from or to the power line by a circuit; and a CPU for controlling operations of the switch; wherein the CPU detects a state in which the cell is not connected to the electrical apparatus or a state in which it is unnecessary to supply a peak power to the electrical apparatus when the cell is set to the electrical apparatus and controls operations of the switch based on a detected state.

As to claim 23, Szepesi in view of Aker et al. are applied aupra, and Szepesi further disclose in figure 3A, apparatus comprising: a body which consumes power; a battery (unit 14) which supplies power to the body through a power line by discharging after being charged; a switch (unit 10); a high-capacity capacitor coupled in series with said switch (unit 10) to the power line, the series combination of said switch (unit 10) and said high-capacity capacitor being coupled in parallel with the battery (unit 14); wherein the switch couples and decouples said high-capacity capacitor from and to the

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power line, and a controller (unit 23) for controlling operations of the switch (unit 10) and which acts to conditionally decouple the high-capacity capacitor from the power line.

As to claim 24, Szepesi in view of Aker et al. are applied aupra, and Szepesi further disclose in column 2, line 48 to column 3, line 5, wherein the controller (unit 23) controls operations of the switch (unit 10) to decouple the high-capacity capacitor in response to the battery being disconnected from the body.

As to claim 25, Szepesi in view of Aker et al. are applied aupra, and Szepesi further disclose in column 2, line 48 to column 3, line 5, wherein the controller (unit 23) controls operations of the switch (unit 10) to decouple the high-capacity capacitor by a circuit in response to a reduced power state selected from the group consisting of a state in which the battery is powered off and a state in which the body is kept in a low-power-consumption mode.

Conclusion

3. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Lawrence W Luk whose telephone number is (571)272-2080. The examiner can normally be reached on 7 a.m. to 5 p.m..

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Michael Sherry can be reached on (571)272-2084. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

LWL October 28, 2004

Laurence huk